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APPLICATION NO	D	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,530		11/06/2003	Chiou-Hwang Lee	LEEC3077/EM	8133
23364	7590	06/12/2006		EXAMINER	
BACON 625 SLAT		IAS, PLLC	NGUYEN, CAM N		
FOURTH		12	ART UNIT	PAPER NUMBER	
ALEXAN	DRIA, V	A 22314	1754		
				DATE MAILED: 06/12/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/701,530	LEE ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Cam N. Nguyen	1754					
	The MAILING DATE of this communication app							
Period fo	• •							
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION (36(a). In no event, however, may a rewrite apply and will expire SIX (6) MONON, cause the application to become AE	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status								
1) 🛛	Responsive to communication(s) filed on 03/27	7/06 (an amendment/resp	onse).					
	This action is FINAL . 2b) ☐ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D). 11, 453 O.G. 213.					
Dispositi	on of Claims							
4)🖂	4)⊠ Claim(s) <u>1-4 and 11-13</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-4 and 11-13</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)□ :	The specification is objected to by the Examine	r.						
	The drawing(s) filed on <u>originally filed</u> is/are: a)		cted to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.					
Priority u	nder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
_	a)⊠ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* S	ee the attached detailed Office action for a list	of the certified copies not	received.					
Attachment	(s)							
	e of References Cited (PTO-892)		Summary (PTO-413)					
3) 🔲 Infom	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		s)/Mail Date nformal Patent Application (PTO-152)					

DETAILED ACTION

Response to Amendment

1. Applicants' amendment and remarks, filed March 27, 2006, has been made of record and entered. Claims 1 & 3 have been amended. Claims 11-13 have been added.

Claims 1-4 & 11-13 are currently pending and under consideration.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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3. Claims 1-4 & 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tennent et al., "hereinafter Tennent", (US Pat. 4,892,857).

Tennent discloses an apparatus (or a composition), which is consisting essentially of: (a) a substrate selected from the group including ceramic material; (b) a first layer, and (c) a second metal-containing layer superposed on said first layer, etc. (see col. 11, claim 1). The second metal-containing layer consists essentially of elements selected from a group including Pt and Re (see col. 11, claim 2). See also col. 12, claims 12-14. The substrate has a composition, which consists essentially of metal oxides including 22 to 30 weight % Al₂O₃, 2.1 to 13.5 weight % MgO, 0 to 11.9 weight % CuO, and 0 to 12.1 weight % ZnO (see col. 12, claim 5).

Regarding claims 1, 3-4, & 11-13, the difference between the claimed catalyst and that disclosed by Tennent, is that Tennent does not disclose the Pt and Re amounts. It would have been *prima facie obvious* to one of ordinary skill in the art at the time the invention was made to have predetermined optimum amounts of Pt and Re to result in an effective catalyst because it is a result effective variable and since it involves only routine experimentation of one having the ordinary skill in the art to do so, and in view of *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Regarding claims 2 & 11, Tennent does not disclose the claimed copper concentration. It would have been *prima facie obvious* to one of ordinary skill in the art at the time the invention was made to have optimized the copper concentration of Tennent to result in an effective catalyst material because of *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Response to Applicants' Arguments

4. Applicants' response, filed on March 27, 2006, to the office action dated 12/27/05 has been fully considered, but not deemed persuasive for the following reasons.

First, applicants urged that "the use of the Tennent's apparatus is remarkably different from the use of the catalyst of claim 1 of the present application..., which would be impermissible hindsight, to make the necessary modifications to arrive at the presently claimed invention" (applicants' response on page 5, 4th paragraph) is noted. This is not found persuasive because the instant claims are drawn to a product (a catalyst) and not a process of use. It is considered the intended use as set forth in the preamble of the instant claims have no bearing on the patentability of the claimed catalyst since the claimed catalyst limitations do not depend on the intended use limitations for completeness or it changes the structure or composition of the claimed catalyst. The catalyst limitations are able to stand alone, see MPEP 2111.02 and 2114. See also *In re Pearson*, 181 USPQ 641 & *In re Thrau*, 57 USPQ 324.

Second, applicants urged that "the first layer" and "second metal-containing layer superposed on the first layer" of claim 1 of Tennent are absent in the present invention (applicants' response on page 5, last paragraph thru page 6, first paragraph) is also noted. This is not found persuasive because the additional first and second metal-containing layers of disclosed in the Tennent reference are not being excluded from the instantly claimed catalyst due to the open-ended phrase "comprising" or "comprises" in the preamble of the instant claims. However, the examiner does not see any difference in the claimed catalyst structure and that disclosed by Tennent since both applicants'

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catalyst and Tennent's catalyst contain a carrier or a substrate having a metalcontaining layer or supported on the carrier with the platinum group metals.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

- 6. Claims 1-4 & 11-13 are pending. Claims 1-4 & 11-13 are rejected. No claims are allowed.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Primary Examiner Cam N Nguyen, whose telephone number is 571-272-1357. The examiner can normally be reached on M, W, R, & F, 9:00 AM 6:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nguyen/cnn (June 08, 2006

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